

REMARKS

Telephone Interview:

Applicant wishes to thank Examiner Beausoliel for having very kindly accorded to the undersigned the courtesy of telephone conversations on November 17 and 20 in Examiner Bonzo's absence.

During that discussion Mr. Beausoliel noted that he had looked only rather briefly at the case, but commented that Applicant had evidently failed to remedy Mr. Bonzo's steadfast rejections of claims having the language "substantially commercial, off-the-shelf" ("COTS"). The undersigned pointed out that actually that wording had been removed, some responses in the past — although Mr. Bonzo had not taken notice of the Applicant's changes in that wording.

The undersigned also pointed out that the only closely related use of the term "substantially" was in the phrase "substantially exclusively". The undersigned also mentioned that the term "exclusively" (unlike "COTS", as repeatedly noted by Mr. Bonzo) was a rather hard-and-fast concept, akin to the word "only", so that there was but one level of broadening or blurring (in the word "substantially") — rather than two levels as in "substantially COTS".

The undersigned also mentioned that Mr. Bonzo, in an early telephone interview with the Applicant and the undersigned, had indicated that his primary or only concern was with the term "substantially COTS". His subsequent series of rejections continued to refer to the (already removed) phrase "substantially COTS", even though it was the phrase "substantially exclusively" that remained.

Mr. Beausoliel, however, remarked that he felt that the phrase "substantially exclusively", too, was questionably in-

definite. The Applicant respectfully notes that Mr. Bonzo had not expressly taken that position.

Hence Mr. Beausoliel's comment appears to represent a ground of rejection, or a possible ground of rejection, that had not been articulated previously.

The present amendment to the specification:

In regard to lines 8 through 10 of the foregoing insert for the specification, the words "substantially" is discussed, *inter alia*, in the Applicant's response mailed August 9, 2004 — at pages 20 through 23, and also in the Appendix that follows the signature page of that document. Some such points have been reenforced in the Applicant's later Responses.

Hence a primary objective in submitting the amendment now is simply to ensure that reasonable "metes and bounds" of the term "substantially" (in phrases such as "substantially exclusively") are not limited to assertion by way of file-wrap-per estoppel but also appear directly in the specification.

New Exhibit:

Following the signature page (page 6) of this Amendment, Applicant respectfully presents an Exhibit of seventeen (17) screens of search results from the website of the Patent & Trademark Office. This listing represents patents in which the phrase "substantially exclusively" appears in claims.

The Applicant calls attention to the fact that there are four hundred eight (408) such patents since 1973 alone. (Only two of the 408 patents are the undersigned's own cases.)

Furthermore, four of the 408 patents are in subject classifications which are understood to be searched in the art

unit that is believed to be handling the present application,
i. e. art unit 2114. Those patents are:

6,052,628 class 700

4,701,639 class 713

6,367,049 class 714

5,825,102 class 307 ("fail-safe circuit").

(The undersigned does not pretend to be knowledgeable in the subject-matter classification used by the Patent & Trademark Office. Accordingly the undersigned asks to be forgiven if his understanding of the relationship between those patents and the instant art unit is mistaken.)

While exhibit of a great many patents using the phrase "substantially exclusively" may not prove that all such usages are proper, the Applicant respectfully points out that a very extensive listing does establish a course of conduct, on the part of the Patent & Trademark Office, which is not *prima facie* adverse to relatively routine use of that phrase. Moreover the term "substantially" is used very freely in the MPEP, the Rules, and the decisional law. In event these remarks are not deemed persuasive, the Applicant respectfully wishes to reserve the right to draw upon many more caselaw-based — and commentary-based — lines of reasoning, in support of the terminologies "substantially" and "substantially exclusively".

Showing under Rule 116:

Applicant respectfully submits that the present amendment to the specification is necessary to address the ground, or possible ground, of rejection articulated by Mr. Beausoliel.

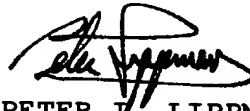
The amendment was not and could not reasonably have been presented earlier because that ground, or possible ground, was first stated only two days ago, by Mr. Beausoliel — given that Mr. Bonzo had never presented such a ground of rejection, apparently not having noticed that the more objectionable (to him) phrase "substantially COTS" had been removed.

Another basis for acceptance of the amendment and the new exhibit under Rule 116 is this: both are believed to sharpen the issues in this case for purposes of appeal.

Conclusion

In view of the foregoing amendment and remarks, the Applicant respectfully requests reconsideration and allowance of all claims now standing in this case. In addition, noting the extremely high cost of continuing prosecution of this application — not only to the Applicant but to the Government as well — it is earnestly requested that, should there appear any obstacle to allowance of the claims herein, the Examiner telephone the undersigned attorney to try to resolve the obstacle.

Respectfully submitted,



PETER I. LIPPMAN
Registration No. 22,835
Attorney for the Applicant

Peter I. Lippman, patent lawyer
(licensed to practice California law only)
17900 Mockingbird Drive
Reno NV 89506

November 22, 2006

TELEPHONE:

775/677-8822

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Results of Search in US Patent Collection db for:**ACLM/"substantially exclusively": 408 patents.****Hits 1 through 50 out of 408**[Next 50 Hits](#)[Jump To](#) [Refine Search](#)

PAT. NO.	Title
1 7,134,737	T Closed-loop color correction using factory-measured color cutoffs anchored to field-measured white point
2 7,105,148	T Methods for producing hydrogen from a fuel
3 7,096,673	T Blade tip clearance control
4 7,081,135	T Mastopexy stabilization apparatus and method
5 7,066,734	T Convertible dental instrument
6 7,052,338	T Integral reversing and trim deflector and control mechanism
7 7,017,426	T Coupler arrangement for isolation arrangement for system under test
8 6,998,774	T Electrically insulated electroluminescent display
9 6,990,175	T X-ray computed tomography apparatus
10 6,979,508	T Fuel cell with integrated feedback control
11 6,972,156	T Body formed of set, initially pasty material and including an electrically conducting path and a method of making such a body
12 6,951,578	T Polycrystalline diamond materials formed from coarse-sized diamond grains
13 6,951,553	T Tissue closure treatment system and method with externally-applied patient interface
14 6,936,037	T Tissue closure treatment system, patient interface and method
15 6,924,701	T Method and apparatus for compensating an amplifier
16 6,877,932	T Drainage system and method for artificial grass using spacing grid
17 6,874,193	T Inhibitor dispensing pipeline pig
18 6,872,308	T Condensate polisher with deep cation bed and powdered resin bed
19 6,856,390	T Time-delay integration in electrophoretic detection systems
































- 20 6,832,025 [Fiber bragg grating fabrication method](#)
- 21 6,823,946 [Horse-shoe type, plate-shaped, plastic hoof fitting](#)
- 22 6,821,456 [Granular polymer additives and their preparation](#)
- 23 6,809,007 [Method and a carrier for treating end facets in photonic devices](#)
- 24 6,794,647 [Mass analyzer having improved mass filter and ion detection arrangement](#)
- 25 6,782,640 [Custom conformable device](#)
- 26 6,777,098 [Marking of an anodized layer of an aluminium object](#)
- 27 6,762,683 [Tag device](#)
- 28 6,756,290 [Method for the production of a semiconductor device](#)
- 29 6,755,022 [Turbo-charged internal combustion engine with in-cylinder EGR and injection rate shaping](#)
- 30 6,746,752 [Synthetic grass with resilient granular top surface layer](#)
- 31 6,717,813 [Heat dissipation unit with direct contact heat pipe](#)
- 32 6,712,830 [Soft tissue anchor](#)
- 33 6,688,587 [Method for the adaptation of a machine support](#)
- 34 6,679,882 [Electrosurgical device for coagulating and for making incisions, a method of severing blood vessels and a method of coagulating and for making incisions in or severing tissue](#)
- 35 6,666,225 [System and method for optimizing the efficiency of an oil supply](#)
- 36 6,653,148 [Optical sensor for determining an analyte, and method of manufacturing the optical sensor](#)
- 37 6,644,252 [Two-stroke engine with storage duct](#)
- 38 6,638,470 [Flash-spinning process and solution](#)
- 39 6,636,306 [Optical spectrum analyzer](#)
- 40 6,627,976 [Leadframe for semiconductor package and mold for molding the same](#)
- 41 6,625,945 [Balanced, multi-stud hold-down](#)
- 42 6,624,577 [Tungsten-rhenium filament and method for producing same](#)
- 43 6,590,183 [Marking of an anodized layer of an aluminum object](#)
- 44 6,586,443 [Method of treating multiple sclerosis](#)
- 45 6,576,084 [Method of pretreating pulp with yield or strength-enhancing additive](#)
- 46 6,551,689 [Synthetic grass with resilient granular top surface layer](#)
- 47 6,541,066 [Thin ceramic coatings](#)
- 48 6,527,916 [Pressing section for a paper machine](#)
- 49 6,517,684 [Method of producing moulded pulp articles with a high content of dry matter](#)
- 50 6,516,168 [IMAGE FORMING APPARATUS, A CARTRIDGE AND DEVELOPER CONTAINER DETACHABLY MOUNTABLE THEREON, AND A DRIVING SOURCE FOR PROVIDING A FORCE FOR OPENING A SEALING MEMBER FOR REMOVABLY SEALING A DEVELOPER SUPPLYING OPENING](#)

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aclm/"substantially exclusively"

PAT. NO.	Title
51 6,515,052	Granular polymer additives and their preparation
52 6,498,862	Evaluation of biofilms and the effects of biocides thereon
53 6,496,093	Displacement device
54 6,488,892	Sample-holding devices and systems
55 6,469,311	Detection device for light transmitted from a sensed volume
56 6,460,264	Part Measurement test fixture
57 6,443,513	Cup bumper absorber
58 6,435,682	Laser imaging using a spatial light modulator
59 6,418,256	High order spatial mode optical fiber
60 6,387,074	Two-chamber drug delivery device comprising a separating membrane
61 6,367,473	Medium dispenser
62 6,367,049	Encoding multiword information by wordwise interleaving
63 6,352,331	Detection of non-firing printhead nozzles by optical scanning of a test pattern
64 6,338,682	Portable, adjustable-contour, putting green
65 6,336,330	Steam-turbine plant
66 6,332,221	Thermoregulatory clothing
67 6,328,286	Apparatus for blowing streams of bubbles
68 6,323,949	Optical measurement method and apparatus which determine a condition based on quasi-elastic-interaction
69 6,317,207	Frequency-domain light detection device



































- 70 [6,297,018](#)  [Methods and apparatus for detecting nucleic acid polymorphisms](#)
- 71 [6,276,375](#)  [Apparatus and methods for washing cores of cored lettuce heads](#)
- 72 [6,270,104](#)  [Composite bicycle frame and methods for its construction](#)
- 73 [6,264,244](#)  [End connector for composite coiled tubing](#)
- 74 [6,257,454](#)  [Media dispenser](#)
- 75 [6,236,508](#)  [Multicolor detector and focal plane array using diffractive lenses](#)
- 76 [6,219,087](#)  [Interactive video communication in real time](#)
- 77 [6,187,267](#)  [Chemiluminescence detection device](#)
- 78 [6,182,673](#)  [Dump facility for cassette sewage tanks](#)
- 79 [6,182,515](#)  [Coupler arrangement for isolation arrangement for system under test](#)
- 80 [6,179,141](#)  [Container assembly provided with anitbacterial agent against slow-leak bacteria](#)
- 81 [6,178,008](#)  [Constructing device-state tables for inkjet printing](#)
- 82 [6,153,442](#)  [Reagents and methods for specific binding assays](#)
- 83 [6,132,556](#)  [Method of controlling pulp digester pressure via liquor extraction](#)
- 84 [6,125,318](#)  [Slip ratio antiskid controller using mu/slip ratio generated velocity reference](#)
- 85 [6,107,925](#)  [Method for dynamically adjusting criteria for detecting fire through smoke concentration](#)
- 86 [6,086,181](#)  [Maximum-diagonal print mask and multipass printing modes, for high quality and high throughput with liquid-base inks](#)
- 87 [6,086,151](#)  [Chair apparatus with resilient support member](#)
- 88 [6,079,093](#)  [Method and device for releasing cathode plates](#)
- 89 [6,078,922](#)  [Market research database having historical control designator](#)
- 90 [6,071,748](#)  [Light detection device](#)
- 91 [6,052,628](#)  [Method and system for continuous motion digital probe routing](#)
- 92 [6,037,849](#)  [Microwave switch having magnetically retained actuator plate](#)
- 93 [6,034,008](#)  [Flash-spun sheet material](#)
- 94 [6,029,961](#)  [Sleeve-type rubber shock absorber with hydraulic damping](#)
- 95 [6,026,992](#)  [Media dispenser](#)
- 96 [5,992,703](#)  [Dispenser for discharging media](#)
- 97 [5,991,055](#)  [Underpulsed scanner with variable scan speed, P. W. M. color balance, scan modes and column reversal](#)
- 98 [5,989,712](#)  [Process for treating a body of stainless steel so as to promote its adherence to a rubber composition](#)
- 99 [5,980,741](#)  [Bubble trap with flat side having multipurpose supplemental ports](#)
- 100 [5,973,673](#)  [Cursor control device](#)

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PAT. NO.	Title
101 5,969,591	Single-sided differential pressure sensor
102 5,958,527	Process of laying synthetic grass
103 5,958,161	Process for treating a body of stainless steel so as to promote its adherence to a rubber composition
104 5,948,376	Catalyst for purifying exhaust gases
105 5,943,219	System for providing air flow control and EMC shielding of front panels of computers and similar electronic equipment
106 5,941,418	Multiple fluid dispensing system
107 5,935,519	Apparatus for the detection of sulfur
108 5,934,698	Adjustable hitch support
109 5,933,977	Curl control with dryer aircaps
110 5,901,883	Dispenser having nozzle insert with passages for discharge of two media
111 5,884,819	Dispenser for media
112 5,884,775	System and method of inspecting peel-bearing potato pieces for defects
113 5,878,538	Device, particularly for compensating the internal and external pressures in a double-glazing unit
114 5,870,021	Annealing magnetic elements for stable mechanical properties
115 5,863,175	Loading device for material rolls, particularly for paper rolls
116 5,851,936	Elongation for flash spun products



































- 117 5,825,102  Fail-safe circuit
 - 118 5,813,993  Alertness and drowsiness detection and tracking system
 - 119 5,809,883  Drive for a plurality of transfer cylinders of a printing machine
 - 120 5,799,620  Direct contact fluid heating device
 - 121 5,791,518  Dispenser for discharging media
 - 122 5,791,338  Endotracheal intubation apparatus
 - 123 5,786,688  Electrical ammeter including an induction coil
 - 124 5,779,706  Surgical system
 - 125 5,768,482  Resolution-triggered sharpening for scaling of a digital-matrix image
 - 126 5,767,770  Semi-hard magnetic elements formed by annealing and controlled oxidation of soft magnetic material
 - 127 5,740,841  Can filling apparatus
 - 128 5,727,933  Pump and flow sensor combination
 - 129 5,723,055  Nozzle assembly having inert gas distributor
 - 130 5,722,589  Composite load bearing structure
 - 131 5,712,990  Economical automated process for averting physical dangers to people, wildlife or environment due to hazardous waste
 - 132 5,708,740  Optical notch filter manufacture in optical fibre waveguide by plastic deformation
 - 133 5,697,926  Cautery medical instrument
 - 134 5,692,597  Conveyor belt assembly
 - 135 5,677,405  Homopolymers and copolymers of cationically polymerizable monomers and method of their preparation
 - 136 5,669,623  Baby carriage and method of manufacturing seat plate for its seat
 - 137 5,667,566  Apparatus for water vapor removal from a compressed gas
 - 138 5,662,996  Method for manufacturing self-supporting synthetic trim parts and thus manufactured trim parts
 - 139 5,651,235  Packaging method and apparatus
 - 140 5,637,386  Fining abrasive materials
 - 141 5,628,563  Method and system for slurry preparation and distribution
 - 142 5,625,502  Mirror pivoting mechanism, and vehicle comprising such mirror pivoting mechanism
 - 143 5,615,456  Tolerance-compensating reusable clamp structure
 - 144 5,609,295  Composite railway tie and method of manufacture thereof
 - 145 5,601,539  Microbore catheter having kink-resistant metallic tubing
 - 146 5,593,546  Hybrid former with an MB unit in a paper machine
 - 147 5,592,833  Process and apparatus for the recovery of pure argon
 - 148 5,588,017  Optoelectronic semiconductor device, system for optical glass fibre communication having such a device, semiconductor diode laser for use in such a device, and method of manufacturing such a device
 - 149 5,579,933  Safety container and dispenser for small items
 - 150 5,577,131  Device for segmenting textured images and image segmentation system comprising such a device
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PAT. NO.	Title
151 5,574,068	T S-nitrosothiols as smooth muscle relaxants and therapeutic uses thereof
152 5,570,444	T Method of optically coupling optical fibres to injection lasers
153 5,561,134	T Compounds having antihypertensive, cardioprotective, anti-ischemic and antilipolytic properties
154 5,554,096	T Implantable electromagnetic hearing transducer
155 5,535,999	T Apparatus for rotating a flat article through a desired angular orientation
156 5,531,283	T Drivetrain and load bearing swivel hitch assembly and combine incorporating same
157 5,525,181	T Method of manufacturing a multilayer printed circuit board having first and second conducting patterns connected through an adhesive layer and laminate for the manufacture of such a printed circuit board
158 5,524,700	T Method of and vessel for filling a casting mold
159 5,520,337	T Controllable discharge head for controlling the flow media delivered therethrough
160 5,513,033	T Optical fibre amplifier
161 5,510,806	T Portable computer having an LCD projection display system
162 5,506,452	T Power semiconductor component with pressure contact
163 5,498,853	T Heater, particularly for kitchen appliances
164 5,495,216	T Apparatus for providing desired coupling in dual-mode dielectric resonator filters
165 5,485,767	T Saw blade machining system
166 5,475,894	T Handgrip for a tool and method of making same

- 167 [5,475,361](#)  [Strobe warning light](#)
- 168 [5,469,989](#)  [Dispenser for positively discharging a medium through a plurality of motions](#)
- 169 [5,464,319](#)  [Regenerative pump with an axially shifting working fluid chamber](#)
- 170 [5,459,298](#)  [Surgical system temperature controlled electric heating tool](#)
- 171 [5,456,654](#)  [Implantable magnetic hearing aid transducer](#)
- 172 [5,443,185](#)  [Dispenser for media](#)
- 173 [5,439,113](#)  [Bulk container](#)
- 174 [5,430,845](#)  [Peripheral device interface for dynamically selecting boot disk device driver](#)
- 175 [5,420,902](#)  [Fuel assembly with a flow-aiding spacer](#)
- 176 [5,402,952](#)  [Tube coupling system for a spinning or twisting spindle](#)
- 177 [5,402,799](#)  [Guidewire having flexible floppy tip](#)
- 178 [5,401,520](#)  [Apparatus and method for defrosting frozen proteinaceous food blocks](#)
- 179 [5,393,958](#)  [Heater with a pretensioned heating element](#)
- 180 [5,384,996](#)  [Architectural joint system with arched cover plate](#)
- 181 [5,383,568](#)  [Method and article for packaging paper and the like](#)
- 182 [5,375,745](#)  [Media dispenser with initial pressure-relief state](#)
- 183 [5,364,862](#)  [Compounds having antihypertensive and anti-ischemic properties](#)
- 184 [5,356,900](#)  [Method of treating chronic herpes virus infections using an opiate receptor antagonist](#)
- 185 [5,355,971](#)  [Drivetrain and load bearing swivel hitch assembly and combine incorporating same](#)
- 186 [5,355,935](#)  [Method and device for vibrating an ingot mould for the continuous casting of metals](#)
- 187 [5,345,951](#)  [Smoking article](#)
- 188 [5,336,111](#)  [Boardlock for an electrical connector](#)
- 189 [5,335,658](#)  [Intravascular blood parameter sensing system](#)
- 190 [5,333,728](#)  [Compact disc jacket and blank therefor](#)
- 191 [5,330,082](#)  [Threaded dispensing closure with flap](#)
- 192 [5,326,599](#)  [Cabin purge system for automotive powder coating](#)
- 193 [5,321,381](#)  [Base for an electromechanical functional unit](#)
- 194 [5,314,173](#)  [Fluid-filled elastic mount having vacuum-receiving chamber partially defined by elastic member for isolating high-frequency vibrations](#)
- 195 [5,310,526](#)  [Chemical sensor](#)
- 196 [5,300,129](#)  [Coating for improved retention of cbn in vitreous bond matrices](#)
- 197 [5,294,076](#)  [Airship and method for controlling its flight](#)
- 198 [5,289,946](#)  [Dispenser for media](#)
- 199 [5,269,582](#)  [Convertible top](#)
- 200 [5,267,687](#)  [Two way mailer](#)
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PAT. NO.	Title
201 5,260,773	T Color alternating 3-dimensional TV system
202 5,254,061	T Eddy current braking system
203 5,252,884	T Translation device
204 5,251,761	T Method of collecting recyclable materials
205 5,248,032	T Compact disc jacket
206 5,246,212	T Fluid-filled elastic mount having vacuum-receiving chamber and auxiliary air chamber for accommodating volumetric change of equilibrium chamber
207 5,241,012	T Activated and conjugated polystyrene substrate
208 5,238,630	T In-mold labeling method
209 5,228,586	T Media dispenser with removable use index
210 5,226,599	T Flush sprinkler
211 5,225,087	T Recovery of EDTA from steam generator cleaning solutions
212 5,223,569	T Self-adhesive conductive elastic gel
213 5,217,211	T Fluid-filled elastic mount having vacuum-receiving chamber partially defined by flexible diaphragm with rigid restriction member
214 5,216,321	T Shadow-mask type color cathode-ray tube
215 5,208,867	T Voice transmission system and method for high ambient noise conditions
216 5,202,482	T Malignancy-associated catabolite
217 5,191,133	T Process for preparation of 2-vinylnaphthalene
218 5,184,449	T Method of and apparatus for the wrapping of palletized units

- 219 5,181,483  Automatically coupling fan for automotive cooling systems
- 220 5,180,917  Self-calibrating proportional counter
- 221 5,180,148  Fluid-filled elastic mount having two orifices passages one of which is selectively opened and closed by means of vacuum pressure
- 222 5,174,283  Blind orolaryngeal and oroesophageal guiding and aiming device
- 223 5,173,701  Radar apparatus with jamming indicator and receiver device with jamming indicator
- 224 5,170,998  Fluid-filled elastic mount having means for controlling elastic deformation of flexible diaphragm(s) defining equilibrium chamber(s)
- 225 5,167,403  Fluid-filled elastic mount having two orifice passages one of which is selectively opened and closed by means of vacuum pressure
- 226 5,164,573  Optical reading device
- 227 5,164,222  CVD method for depositing a layer on an electrically conductive thin layer structure
- 228 5,158,272  Work table having a metallic cutting base for an automatic fluid jet cutting installation
- 229 5,145,156  Fluid-filled elastic mount having two differently tuned orifices selectively utilized for damping or isolating vibrations in different frequency ranges
- 230 5,141,278  Window molding member for automobiles
- 231 5,137,155  Method and an apparatus for treating plant fibres
- 232 RE33,970  Cushioning device for remote control television equipment, and assembly thereof
- 233 5,122,639  Electric hotplate
- 234 5,098,072  Fluid-filled elastic mount having two differently tuned orifices and means for controlling pressure in air chamber or chambers adjacent to equilibrium chamber or chambers
- 235 5,087,010  Speaker's prompting podium
- 236 5,082,311  Passive impact restraining vehicular steering column assembly
- 237 5,078,607  Dental implant including plural anchoring means
- 238 5,074,287  Cervical traction device
- 239 5,072,741  Method of and apparatus for simultaneously making plural tobacco filler streams
- 240 5,065,584  Hot gas bypass defrosting system
- 241 RE33,729  Multilayer optical filter for producing colored reflected light and neutral transmission
- 242 5,061,181  Dental implant including plural anchoring means
- 243 5,052,622  Sprinkler
- 244 5,046,197  Molded plastic belt and buckle
- 245 5,038,766  Blind orolaryngeal and oroesophageal guiding and aiming device
- 246 5,028,193  Saddle-bound books, magazines and the like and process for manufacture same
- 247 5,015,900  Motor support and method of making
- 248 5,013,739  Method of treating chronic fatigue syndrome using an opiate receptor antagonist
- 249 5,006,946  Flexible polymeric resinous magnetic head supporting device
- 250 5,001,583  Flexible polymeric resinous magnetic head supporting device
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PAT. NO.	Title
251 4,999,602	Resistor for audio/video signal circuit
252 4,997,235	Light metal wheel rim apparatus
253 4,993,526	Luggage-protective pad including integral feet and bumper
254 4,992,603	Process for producing nitromethane
255 4,959,674	Acoustic ink printhead having reflection coating for improved ink drop ejection control
256 4,953,989	Gas bearing part, and device provided with such a gas bearing part
257 4,937,638	Edge emitting light emissive diode
258 4,936,025	Combination infrared and airborne drying of a web
259 4,934,365	Non-invasive hyperthermia method and apparatus
260 4,921,516	Method of manufacturing optical fibers with elimination of paraxial refractive-index dip
261 4,917,971	Internal reforming fuel cell system requiring no recirculated cooling and providing a high fuel process gas utilization
262 4,904,164	Scroll type compressor with variable displacement mechanism
263 4,901,049	Temperature limiter
264 4,899,926	Two way mailer
265 4,888,346	Method for the treatment of persons infected with HTLV-III (AIDS) virus
266 4,872,738	Acousto-optic fiber-optic frequency shifter using periodic contact with a surface acoustic wave
267 4,863,073	Valve for aerosol container
268 4,858,579	Fuel-injection for direct-injection diesel engine

- 269 4,854,776  Process and apparatus for lining a tunnel with concrete
 - 270 4,840,462  Method of driving a ferroelectric liquid crystal display device and associated display device to achieve gray scale
 - 271 4,839,032  Separating constituents of a mixture of particles
 - 272 4,832,825  Method for the injection of catalyst in a fluid catalytic cracking process, especially for heavy feedstocks
 - 273 4,821,497  Cotton harvester and tandem row unit therefor
 - 274 4,807,317  Modular ramp
 - 275 4,796,857  Metallic seal for high performance butterfly valve
 - 276 4,796,469  Apparatus and process for measuring change of liquid level in storage tanks
 - 277 RE32,722  Ventilation system with thermal energy recovery
 - 278 4,761,323  Method and article for the production of porous fiber bats
 - 279 4,742,689  Constant temperature maintaining refrigeration system using proportional flow throttling valve and controlled bypass loop
 - 280 4,715,335  Internal combustion engine with reduced noise and heat emissions
 - 281 4,708,230  Declutching device
 - 282 4,702,806  Method of and apparatus for recovering a metal from a solution, namely an electrolyte-containing metal
 - 283 4,701,639  Threshold detector circuit and method
 - 284 4,698,914  Setting/drying process for flexible web coating
 - 285 4,687,926  Spectrally filtered lens producing plural f-numbers with different spectral characteristics
 - 286 4,674,298  Pendant necklace assembly including a disengageable writing implement
 - 287 4,673,576  Method of producing veal and animal feed therefor
 - 288 4,669,022  Magnetic-tape scanning device with improved rating transformer mounting and method of manufacturing such a device
 - 289 4,662,372  Disposable surgical instrument and method of forming
 - 290 4,637,862  Wire-glass composite and method of making same
 - 291 4,634,852  Sensor using fiber optic interferometer
 - 292 4,633,344  Unambiguously tracking a data track in response to signals derived from the track data itself
 - 293 4,629,443  Installation for damping torsional vibrations in a gear drive, especially between the crankshaft and an output shaft of internal combustion engines
 - 294 4,627,654  Articulated parallelogram gripper
 - 295 4,626,191  Method of controlling a combustion flame and a microphonic probe allowing the application of the method
 - 296 4,619,404  Gas distribution arrangement for the admission of a processing gas to an atomizing chamber
 - 297 4,616,915  Immersion type film processing apparatus
 - 298 4,615,433  Method of conveying particulate solids
 - 299 4,601,211  Multi-port valve in a gas collection system and method of using same
 - 300 4,597,379  Method of coagulating muscle tissue
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aclm/"substantially exclusively"

PAT. NO.	Title
301 4,590,155	Emulsion having high silver chloride content, photographic recording material and process for the production of photographic recordings
302 4,581,913	Method for improving the release and finish characteristics of metal stamping dies
303 4,562,244	Process for forming thermally stable thermotropic liquid crystalline polyesters of predetermined chain length utilizing aliphatic dicarboxylic acid
304 4,553,507	Engine with additional shared flow control runner for two cylinders
305 4,543,816	Method and apparatus for monitoring the diameters of rod-shaped products of the tobacco processing industry
306 4,543,162	Multi-ply headbox having adjustable outlet slices
307 4,539,386	Process for forming thermally stable thermotropic liquid crystalline polyesters of predetermined chain length
308 4,538,979	Method of controlling a combustion flame
309 4,534,650	Device for the determination of the position of points on the surface of a body
310 4,533,245	Inspection lighting system
311 4,531,702	Injection mold for forming optical fiber connector
312 4,531,569	Process and apparatus for producing tubes of reactive metals
313 4,528,782	Sandblast nozzle
314 4,527,903	Apparatus for uniformizing the parameters of a flow and/or for mixing together at least two individual streams which discharge into a main flow

- 315 4,522,940 Method of preparing a catalyst and catalyst prepared by the method
- 316 4,521,166 Inflatable air pump
- 317 4,520,723 Pressure roll for use in calenders or the like
- 318 4,512,282 Apparatus for coating plate-shaped bodies of glazed ceramic (tiles), glass or enamel
- 319 4,510,386 Thinning of specimens for examination under the electron microscope
- 320 4,505,053 Drying plant for a material web
- 321 4,498,786 Apparatus for mixing at least two individual streams having different thermodynamic functions of state
- 322 4,497,375 Force measuring apparatus mounted on tractor including Hall sensor detecting deformation of flex rod to control tractor power hoist
- 323 4,486,603 Preparation of trans cyclohexane 1,4-diamine
- 324 4,484,822 Method and apparatus for determining boiling points of liquids
- 325 4,477,583 Silica-modified catalyst and use for selective production of para-dialkyl substituted benzenes
- 326 4,477,328 Optically readable information disk and method of manufacturing same
- 327 4,467,114 Preparation of trans cyclohexane 1,4-diurea
- 328 4,465,886 Silica-modified catalyst and use for selective production of para-dialkyl substituted benzenes
- 329 4,464,675 Low frequency digital comb filter system
- 330 4,464,402 Process for manufacturing a high protein food material
- 331 4,459,466 Dual air passage heating apparatus with ceramic heater element
- 332 4,458,979 Light collecting arrangement in combination with a light scanning arrangement for inspecting a web of material
- 333 4,455,959 Apparatus for supporting the mast of a sailing board
- 334 4,449,278 Roller for supporting material sensitive to radiation and, method of making the same
- 335 4,432,962 Method for removing hydrogen sulfide from gas streams
- 336 4,432,214 Device for insertion and feed of products on the plates in a horizontal plate freezer
- 337 4,423,495 Method and apparatus for recording optically an information signal on a record medium along tracks
- 338 4,418,211 Preparation of trans-cyclohexane-1,4-disulphonyl urea
- 339 4,411,937 Process and composition for coating metals
- 340 4,402,822 Method of effecting highly exothermic reactions
- 341 4,399,981 Vessel for molten metal
- 342 4,392,546 Suspended operator station
- 343 4,377,085 Female dies and method of manufacture
- 344 4,374,526 Hearing faculty testing and apparatus therefor
- 345 4,365,746 Swirl injection valve
- 346 4,365,655 Flame retardant woven fabrics
- 347 4,356,010 Filter apparatus having filter elements and reverse-flow cleaning means
- 348 4,347,172 Process and composition for coating metals
- 349 4,335,316 Web break detector with adjustable scanning head
- 350 4,325,936 Method for removing hydrogen sulfide from gas streams
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PAT. NO.	Title
351 4,323,077	Acoustic intensity monitor
352 4,315,510	Method of performing male sterilization
353 4,315,449	Cam operated cutoff machine
354 4,291,078	Breathable leather-like materials and process for making same
355 4,285,125	Barber-type razor
356 4,283,379	Method for removing hydrogen sulfide from gas streams
357 4,279,188	Acoustic coupling free electric drum
358 4,276,865	Diesel engine having a subchamber
359 4,251,724	Method and apparatus for determination of temperature, neutron absorption cross section and neutron moderating power
360 4,243,648	Method for removing hydrogen sulfide from gas streams
361 4,241,945	Motor vehicle bumper
362 4,241,856	Child-resistant fluid top
363 4,239,939	Stereophonic sound synthesizer
364 4,230,905	Stereophonic system with discrete bass channels
365 4,230,048	Railroad car
366 4,211,494	Device for guiding the printer needles in a mosaic needle printer
367 4,211,478	Circuit for indicating the condition of the battery in a photographic camera
368 4,210,115	Warm air intake system for an internal combustion engine

- 369 [4,206,012](#)  [Pick-up element for labels in a labeling machine](#)
- 370 [4,188,160](#)  [Feed residue saver for combines](#)
- 371 [4,188,027](#)  [Apparatus for laterally positioning sheets in printing machines or the like](#)
- 372 [4,183,120](#)  [Encircling devices](#)
- 373 [4,180,832](#)  [Video recording and reproducing apparatus having variable reproduction speeds](#)
- 374 [4,142,436](#)  [Method of playing stringed musical instrument](#)
- 375 [4,132,331](#)  [Collapsible packing tube](#)
- 376 [4,127,616](#)  [Process for selective production of para dialkyl substituted benzenes](#)
- 377 [4,120,551](#)  [Interlocking drawer assembly](#)
- 378 [4,115,646](#)  [Process for preparing 7-aminocephalosporanic acid derivatives](#)
- 379 [4,107,839](#)  [Manually guided cutting machine for sheet material](#)
- 380 [4,090,981](#)  [Catalyst for selective production of para dialkyl substituted benzenes](#)
- 381 [4,085,494](#)  [Method of and apparatus for positioning blades of a wood-chipping cutter drum](#)
- 382 [4,084,278](#)  [High speed transfer](#)
- 383 [4,081,739](#)  [Circuit for quick charging of batteries](#)
- 384 [4,079,999](#)  [Method and apparatus for mining](#)
- 385 [4,065,271](#)  [Process of separating hydrogen fluoride from gases](#)
- 386 [4,063,676](#)  [Friction welding methods and apparatus](#)
- 387 [4,058,176](#)  [Tool and method for drilling a hole with an increased cross-sectional area](#)
- 388 [4,054,844](#)  [Amplifying system](#)
- 389 [4,054,581](#)  [Preparation of cis-1-hydroxy-3-substituted-6,6-dimethyl-6,6a,7,8,10,10a-hexahydro-9H-di benzo\[b,d\]pyran-9-ones and intermediates therefor](#)
- 390 [4,049,404](#)  [Ventilation system with thermal energy recovery](#)
- 391 [4,048,851](#)  [Axial and annular magneto-elastic dynamometers](#)
- 392 [4,041,379](#)  [Apparatus for testing metal blanks utilizing at least one inspecting head moved along the surface thereof](#)
- 393 [4,029,463](#)  [Method for baking food products](#)
- 394 [4,018,697](#)  [Fuel cycle management](#)
- 395 [4,014,472](#)  [Discharge nozzle structure](#)
- 396 [4,012,226](#)  [Process for steel production](#)
- 397 [4,008,648](#)  [Telescopic ram](#)
- 398 [3,999,395](#)  [Support arrangement for a construction](#)
- 399 [3,986,865](#)  [Process for producing steel](#)
- 400 [3,985,995](#)  [Method of making large structural one-piece parts of metal, particularly one-piece shafts](#)
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PAT. NO.	Title
401 3,972,198	T Method of protecting a pile imbedded in offshore areas having a shifting layer of mud
402 3,966,283	T Refrigeration apparatus and method for making same
403 3,965,360	T Method for discriminating high-temperature red heated material
404 3,958,619	T Method for the separation of castings from casting moulds or similar material and a foundry machine for carrying out this method
405 3,949,894	T Laminated container
406 3,948,052	T Installation of an exhaust gas turbo-charger at an internal combustion engine
407 3,947,105	T Production of colored designs
408 3,942,848	T Shock absorbing pivot bearing for rotary watch parts

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